

## Claims

1. A method for managing queues using queue sets comprising:
  - allocating packets to queue sets based on a queue set target size;
  - determining a queue service interval for a data rate based upon the queue set target size; and
  - performing queuing operations on at least one of the queue sets as a single entity.
2. The method of claim 1 wherein determining a queue service interval for a data rate based upon the queue set target size further comprises:
  - determining an average queue set size for a queue over a period of time; and
  - adjusting the queue service interval based upon the difference between the average queue set size and the queue set target size.
3. The method of claim 1 wherein performing queuing operations on at least one of the queue sets as a single entity further comprises:
  - shaping traffic flow of queue sets for a queue at a rate for transmission of data from the queue.